

KNOWLEDGE-BASED STRATEGIES APPLIED TO N-BEST LISTS IN  
AUTOMATIC SPEECH RECOGNITION SYSTEMS

## ABSTRACT OF THE DISCLOSURE

5 A highly accurate technique for recognizing spoken  
digit strings is described. A spoken digit string is  
received and analyzed by a speech recognizer, which  
generates a list of hypothesized digit strings arranged in  
ranked order based on a likelihood of matching the spoken  
10 digit string. The individual hypothesized strings are then  
analyzed in order beginning with the hypothesized string  
having the greatest likelihood of matching the spoken  
string to determine whether they satisfy a given  
constraint. The first hypothesized string in the list  
15 satisfying the constraint is selected as the recognized  
string.

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